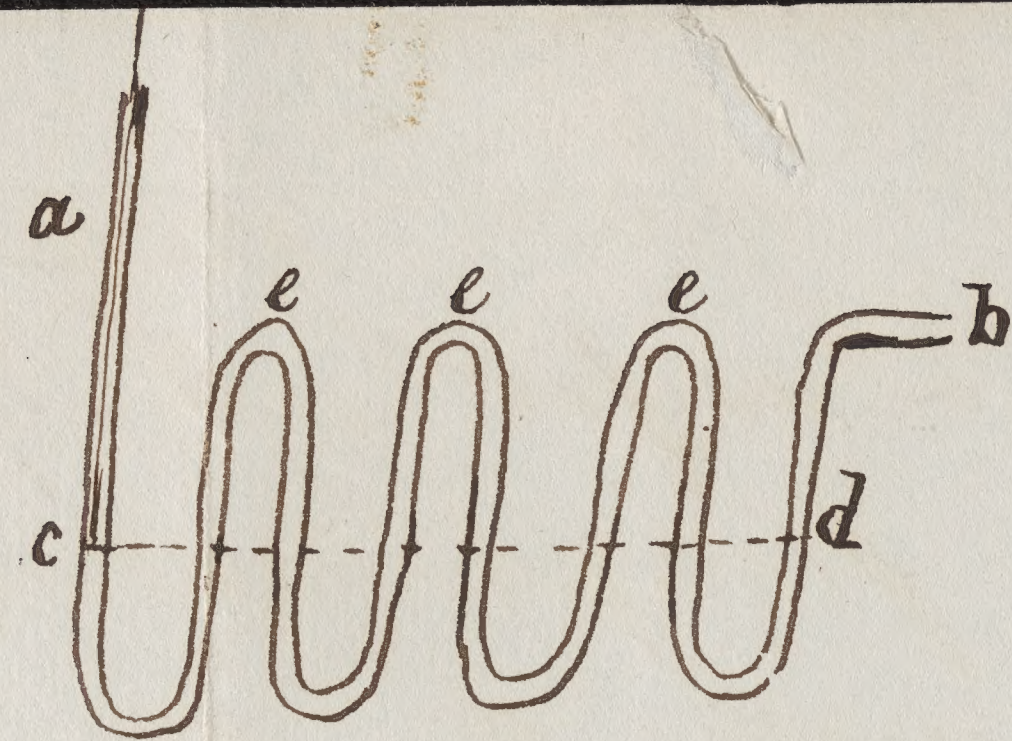


Liverpool 5th April 1828

Dear Robert,

Will you let me know the number of wheels that have yet to be sent here, to complete the order given by the Liverpool Company? - There is a Founder coming here on Tuesday to examine the pattern wheels, and is expected to make them much cheaper than you have been doing at Newcastle, however if he does he will not have much profit -

Mr. Borth has just been contriving a Barometer or Steam Gauge to use upon the Loco motive Engines - it is thus



Supposing the zig-zag lines to represent a glass tube or any other substance that will not injure mercury - a is the open end of the tube with a stick floating upon the mercury similar to a common steam-gauge, b is the end at which the pressure of steam will act from the Boiler - The tube is filled with mercury up to the dotted line cd - the three bent parts of the tube all above the dotted line are filled with water - When the steam presses in the tube at b it forces down the mercury at d which causes a corresponding rising in the whole train to the point c - and the effect of weight is the same as if it was one continued long tube containing the same quantity of mercury - Will this do?

April 7th I have just received yours of the 5th inst. as you have proceeded so far with the wheels for the Engine with the flanges inside, let the Waggon wheels be made the same as they were except the feather we spoke of -

Yours Affly

Jos. Stephenson

Mr. Please to answer the following letter which I have received from ^{Mr. Fetherick} ~~Thompson & Foreman~~

Penzance 4 April 1822

Dr Sir, A friend of mine in this town, a Farmer to whom I have spoken of your Manufactory at Newcastle requests your prices for high pressure Engines of 2. 3. 4 & 5 Horse power including the Boiler and every thing up to the connection with the working Machinery - He intends it for grinding Bark - Also the mode of payment and where delivered - If your prices suit you will find him safe - His address is Mr. David James Farmer, Merthyr-tv-vel I am &c
You may reply to him or me as you please
Jno Fetherick

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RECEIVED
APR 8 1860
NEWCASTLE

Mr. Robt. Stephenson
Civil Engineer
Newcastle Tyne

